

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,657	01/11/2002	Satoru Wakamatsu	1691-0170P	4641
2292	7590 10/01/2003			
BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 747			LE, HOA T	
FALLS CHUI	RCH, VA 22040-0747		LE, II	JA I
•			ART UNIT	PAPER NUMBER
			1773	
			DATE MAILED: 10/01/2003	φ
				1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)			
•	10/030,657	USORO ET AL.			
·Office Action Summary	Examin r	Art Unit			
•	H. T. Le	1773			
The MAILING DATE of this communication appears on the cover sheet with the c rresp ndence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	_·				
2a) This action is FINAL . 2b) ☐ Thi	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-6 and 11-14</u> is/are allowed.					
6)⊠ Claim(s) <u>7-10</u> is/are rejected.					
7) Claim(s) is/are objected to.		•			
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on		ved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	_			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)			

Application/Control Number: 10/303,657

Art Unit: 1773

DETAILED ACTION

Specification

 The disclosure is objected to because of the following informalities: page 11, line 20, the phrase "more than 200 μm and 5 mm or less" is meaningless and thus confusing.
 Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. Claims 7-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7, the phrase "more than 200 μm and 5 mm or less" is confusing. In claim 8, it is unclear what is meant by "naturally dropping".

Claims 9 and 10 are deemed indefinite in view of their dependency upon claim 8.

Allowable Subject Matter

- 3. Claims 1-6 and 11-14 are allowed.
- 4. Claim 8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 5. Claims 7, 9 and 10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

 None of the references of record, singly or in combination, teach or suggest foamed

M

Application/Control Number: 10/303/657

Art Unit: 1773

polycrystalline silicon having bubbles and method of making thereof as claimed. None of the references of record teach or suggest an apparatus for making a polycrystalline silicon comprising a gas feed pipe for supplying seal gas (that would form bubbles within the silicon)through a space defined by the inner wall of a vessel and the outer wall of a chlorisilane feed pipe which feeds the reactant for forming the polycrystalline silicon.

- 7. References are cited as art of interest.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 703-308-2415. The examiner can normally be reached on 10:00 a.m. to 6:30 p.m., Mondays to Friday.

H. T. Le

Primary Examiner Art Unit 1773

ĥ